

## CLAIMS:

1. A method for reconstructing a disturbed spectrogram comprising spectrogram data, which is subjected to an awarding of a reliability measure, and whereof the spectrogram data having a low reliability measure is replaced by more reliable data, characterized in that the replacement is carried out by employing spectrogram data having a higher reliability measure as a means for selecting a code-book entry where said more reliable data is stored.  
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2. The method according to claim 1, characterized in that the selection of the code-book entry is based on a match between the spectrogram data having a higher reliability measure and the reliable spectrogram data stored in the code-book.  
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3. The method according to claim 1 or 2, characterized in that the replacement is a gradual replacement.
4. The method according to claim 3, characterized in that the gradual  
15 replacement depends on the reliability measure.
5. The method according to one of the claims 1-4, characterized in that the spectrogram data stored in the code-book comprises data derived from training.
- 20 6. The method according to one of the claims 1-5, characterized in that the disturbed spectrogram is disturbed with noise, in particular additive noise such as background noise, and/or acoustic echo.
7. The method according to one of the claims 1-6, characterized in that the  
25 finally output reliable data is influenced in dependence on known information on its time and/or frequency behavior.

8. The method according to one of the claims 1-7, characterized in that the disturbed spectrogram is the result of a spectral subtraction process wherein estimated or measured disturbance is subtracted from an original disturbed signal.

5 9. A device for implementing the method according to one of the claims 1-8, the device comprising means for subjecting the spectrogram data to an awarding of a reliability measure, and means for replacing the spectrogram data having a low reliability measure by more reliable data, characterized in that the device further comprises code-book means coupled to both the subjecting means and the replacing means for carrying out the  
10 replacement by employing spectrogram data having a higher reliability measure as a means for selecting a code-book entry where said more reliable data is stored.

10. Signals suited for applying the method according to one of the claims 1-8 in a device according to claim 9.